



15992 U.S. PTO

Please type a plus sign (+) inside this box → ☒PTO/SB/05 (03-01)  
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |  |
|------------------------|--|
| Attorney Docket No.    | 8021-193 (SS-18611-US)                       |
| First Inventor         | Myoung-Bo KWAK                               |
| Title                  | Datat Recovery Apparatus and Method for..... |
| Express Mail Label No. | EV 413370717US                               |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 37]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 12]
5. Oath or Declaration [Total Pages 2]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. ☒ Other: Post Card Payment Form PTO-2038 for \$770.00 & \$40.00

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Prior application information:

Examiner \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**

|  |   |           |   |
|--|---|-----------|---|
| <input type="checkbox"/> Customer Number or Bar Code Label | (Insert Customer No. or Attach bar code label here) | or        | <input type="checkbox"/> Correspondence address below |
| Name   | Frank Chau, Esq.                                    |           |   |
|  | F. CHAU & ASSOCIATES, LLC                           |           |   |
| Address  | 1900 Hempstead Turnpike                             |           |   |
| City   | East Meadow   | State     | New York  |
|  |   | Zip Code  | 11554   |
| Country  | USA   | Telephone | 516-357-0091  |
|  |   | Fax       | 516-357-0092  |

|                   |                 |                                   |         |
|-------------------|-----------------|-----------------------------------|---------|
| Name (Print/Type) | Frank V. DeRosa | Registration No. (Attorney/Agent) | 43,584  |
| Signature         |                 | Date                              | 2/19/04 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 810.00

## Complete if Known

Application Number  
Filing Date  
First Named Inventor Myoung-Bo KWAK  
Examiner Name  
Art Unit  
Attorney Docket No. 8021-193 (SS-18611-US)

## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number 50-0679

Deposit Account Name F.CHAU & ASSOCIATES, LLC

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description        | Fee Paid   |
|----------------------------|----------------------------|------------------------|------------|
| 1001 770                   | 2001 385                   | Utility filing fee     | 770.00     |
| 1002 340                   | 2002 170                   | Design filing fee      |            |
| 1003 530                   | 2003 265                   | Plant filing fee       |            |
| 1004 770                   | 2004 385                   | Reissue filing fee     |            |
| 1005 160                   | 2005 80                    | Provisional filing fee |            |
| SUBTOTAL (1)               |                            |                        | (\$ 770.00 |

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 20                 | -20** = 0    | 18             | 0        |
| 3                  | -3** = 0     | 86             | 0        |
| Multiple Dependent |              | 290            | 0        |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description  |
|----------------------------|----------------------------|--|
| 1202 18                    | 2202 9                     | Claims in excess of 20                                     |
| 1201 86                    | 2201 43                    | Independent claims in excess of 3                          |
| 1203 290                   | 2203 145                   | Multiple dependent claim, if not paid                      |
| 1204 86                    | 2204 43                    | ** Reissue independent claims over original patent         |
| 1205 18                    | 2205 9                     | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code    | Fee (\$) | Fee Code    | Fee (\$) | Fee Description  | Fee Paid |
|-------------|----------|-------------|----------|--|----------|
| 1051 130    |          | 2051 65     |          | Surcharge - late filing fee or oath  |          |
| 1052 50     |          | 2052 25     |          | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053 130    |          | 1053 130    |          | Non-English specification  |          |
| 1812 2,520  |          | 1812 2,520  |          | For filing a request for ex parte reexamination                            |          |
| 1804 920*   |          | 1804 920*   |          | Requesting publication of SIR prior to Examiner action                     |          |
| 1805 1,840* |          | 1805 1,840* |          | Requesting publication of SIR after Examiner action                        |          |
| 1251 110    |          | 2251 55     |          | Extension for reply within first month                                     |          |
| 1252 420    |          | 2252 210    |          | Extension for reply within second month                                    |          |
| 1253 950    |          | 2253 475    |          | Extension for reply within third month                                     |          |
| 1254 1,480  |          | 2254 740    |          | Extension for reply within fourth month                                    |          |
| 1255 2,010  |          | 2255 1,005  |          | Extension for reply within fifth month                                     |          |
| 1401 330    |          | 2401 165    |          | Notice of Appeal   |          |
| 1402 330    |          | 2402 165    |          | Filing a brief in support of an appeal                                     |          |
| 1403 290    |          | 2403 145    |          | Request for oral hearing   |          |
| 1451 1,510  |          | 1451 1,510  |          | Petition to institute a public use proceeding                              |          |
| 1452 110    |          | 2452 55     |          | Petition to revive - unavoidable   |          |
| 1453 1,330  |          | 2453 665    |          | Petition to revive - unintentional   |          |
| 1501 1,330  |          | 2501 665    |          | Utility issue fee (or reissue)   |          |
| 1502 480    |          | 2502 240    |          | Design issue fee   |          |
| 1503 640    |          | 2503 320    |          | Plant issue fee  |          |
| 1460 130    |          | 1460 130    |          | Petitions to the Commissioner  |          |
| 1807 50     |          | 1807 50     |          | Processing fee under 37 CFR 1.17(q)  |          |
| 1806 180    |          | 1806 180    |          | Submission of Information Disclosure Stmt                                  |          |
| 8021 40     |          | 8021 40     |          | Recording each patent assignment per property (times number of properties) | 40.00    |
| 1809 770    |          | 2809 385    |          | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810 770    |          | 2810 385    |          | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801 770    |          | 2801 385    |          | Request for Continued Examination (RCE)                                    |          |
| 1802 900    |          | 1802 900    |          | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00

## SUBMITTED BY

Name (Print/Type) Frank V. DeRosa

Registration No. 43,584  
(Attorney/Agent)

(Complete if applicable)

Telephone 516-357-0091

Signature

Date

2/19/04

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT

Atty. Docket No. 8021-193 (SS-18611-US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Myoung-Bo KWAK

For: DATA RECOVERY APPARATUS AND METHOD FOR DECREASING  
DATA RECOVERY ERROR IN HIGH-SPEED SERIAL LINK

This application is a:

- ☒ New Application
- ☐ Continuation
- ☐ Continuation-In-Part (CIP)
- ☐ Divisional

of co-pending U.S. application Serial No. \_\_\_\_\_  
filed on \_\_\_\_\_.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date **February 19, 2004** in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **EV413370717US** addressed to: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Frank V. DeRosa  
(Type or print name of person mailing paper)

  
(Signature of person mailing paper)

**Enclosed are:**

- [X] 28 page(s) of specification  
[X] 1 page(s) of Abstract  
[X] 8 page(s) of claims  
[X] 12 sheets of drawings [X] formal [ ] informal  
[X] 2 page(s) of Declaration and Power of Attorney

[X] An Assignment of the invention to:

SAMSUNG ELECTRONICS CO., LTD

- [ ] This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s):

APPLICATION NO(S) .:

FILING DATE

- [X] Priority under Title 35 United States Code, § 119 is claimed from:

Country

Appln. No.

Filed

KOREA

2003-10758

20 February 2003

- [X] Certified copy of which:

[X] is enclosed

[ ] will follow.

**Additional papers enclosed:**

- [ ] Preliminary Amendment  
The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment.  
[ ] Information Disclosure Statement  
[ ] Form PTO-1449  
[ ] Other

**Fee Calculation (37 C.F.R. §1.16)**

| For                             | Number<br>Filed | Number<br>Extra | Rate       | Basic Fee |
|---------------------------------|-----------------|-----------------|------------|-----------|
|                                 |                 |                 |            | \$ 770.00 |
| Total<br>Claims*                | 20              | -20 = 0         | x \$ 18.00 | \$ .00    |
| Independent<br>Claims           | 3               | -3 = 0          | x \$ 86.00 | \$ .00    |
| Multiple<br>Dependent<br>Claims | [ ] yes         | Add'l. Fee      | \$290.00   | \$        |
|                                 | [X] no          | Add'l. Fee      | None       | = \$      |
| TOTAL                           |                 |                 |            | \$ 770.00 |

[ ] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$ .00.

[X] Please charge fee of \$40.00 For recording the attached Assignment by Credit Card Payment Form PTO-2038 enclosed herewith.

[X] Please charge fee of \$770.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith

[ ] Charge fee to Deposit Account No. 50-0679. Order No. \_\_\_\_\_ TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

---

\* Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Relate Back - 35 U.S.C. § 120

[ ] Amend the specification by inserting after the Title the sentence:

--This is a [ ] continuation [ ] continuation-in-part [ ] divisional of copending application Serial No. \_\_\_\_\_ filed on \_\_\_\_\_, the disclosure of which in its entirety is incorporated-by-reference herein.--

Date: \_\_\_\_\_

2/19/04



SIGNATURE OF ATTORNEY  
Frank V. DeRosa  
Reg. No. 43,584

F. CHAU & ASSOCIATES, LLC  
1900 Hempstead Turnpike, Suite 501  
East Meadow, New York 11554  
Tel. No. (516) 357-0091  
Fax. (516) 357-0092

FC/FVD/MRF:mel